



## Pyruvate Phosphate Dikinase Activity Assay kit

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Pyruvate phosphate dikinase (PPDK, EC 2.7.9.1) is a rate-limiting enzyme in the C<sub>4</sub> pathway and sedum acid metabolic pathway, catalyzing the three-step reaction of ATP, pyruvate and Pi to produce phosphoenolpyruvate. This enzyme mainly exists in the chloroplast matrix of C<sub>4</sub> plants and plays an important role in regulating photosynthetic function. The reverse reaction of PPDK catalyzes phosphoenolpyruvate (PEP), AMP and P<sub>i</sub> to produce pyruvate, ATP and Pi, and lactate dehydrogenase (LDH) further catalyzes pyruvate and NADH to produce lactic acid and NAD<sup>+</sup>. The NADH reduction rate was measured at 340nm, according to which the PPDK activity could be calculated.

Catalog No.	250585
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Storage/Stability	-20°C/6 months
Shipping	Gel Packs